

10069254_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10069254 on November 12, 2004

Original Classifications

4	370/389
4	370/396
3	370/217
3	370/359
3	375/369
3	455/558
2	246/187C
2	340/825.52
2	342/175
2	343/715
2	361/816
2	370/216
2	370/219
2	370/360
2	370/419
2	370/438
2	370/449
2	370/452
2	370/540
2	379/442
2	380/257
2	455/552.1
2	702/122
2	709/217
2	710/100
2	710/110
2	710/315
2	714/4

Cross-Reference Classifications

6	340/825.5
5	370/465
4	370/535
4	379/442
4	379/93.09
4	700/9
3	174/35R
3	370/228
3	370/241
3	370/328
3	370/360
3	370/377
3	370/384

3 370/438
3 370/463
3 370/467
3 370/501
3 380/243
3 385/24
3 398/1
3 398/164
3 455/411
3 700/83
3 705/53
3 709/220
3 709/229
3 709/250
3 725/131
2 235/382
2 244/158R
2 307/147
2 333/24C
2 340/2.1
2 340/2.2
2 340/2.4
2 340/3.51
2 340/539.1
2 340/825.36
2 340/870.03
2 342/372
2 343/713
2 370/216
2 370/222
2 370/258
2 370/336
2 370/337
2 370/345
2 370/349
2 370/364
2 370/389
2 370/394
2 370/395.61
2 370/396
2 370/397
2 370/400
2 370/401
2 370/407
2 370/428
2 370/432
2 370/449
2 370/452

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2 370/458
2 370/462
2 370/498
2 370/524
2 372/50
2 375/219
2 375/222
2 379/230
2 379/88.13
2 380/257
2 380/283
2 380/41
2 385/134
2 385/17
2 385/88
2 398/135
2 398/136
2 455/423
2 455/450
2 455/552.1
2 455/553.1
2 455/558
2 455/8
2 700/18
2 700/82
2 702/91
2 707/100
2 707/9
2 709/209
2 709/219
2 709/238
2 709/239
2 710/104
2 710/52
2 710/7
2 713/153
2 714/4
2 719/313

Combined Classifications

6 340/825.5
6 370/389
6 370/396
6 370/465
6 379/442
5 370/360
5 370/438
5 370/535

5 455/558
5 700/9
4 370/216
4 370/241
4 370/359
4 370/449
4 370/452
4 370/463
4 379/93.09
4 380/257
4 385/24
4 398/164
4 455/552.1
4 709/250
4 714/4
3 174/35R
3 340/825.52
3 370/217
3 370/228
3 370/328
3 370/377
3 370/384
3 370/394
3 370/400
3 370/401
3 370/462
3 370/467
3 370/498
3 370/501
3 375/219
3 375/222
3 375/369
3 379/230
3 380/243
3 385/88
3 398/1
3 455/411
3 700/83
3 705/53
3 709/217
3 709/220
3 709/229
3 709/238
3 709/239
3 710/100
3 710/52
3 713/153
3 719/313

3 725/131
2 178/3
2 235/382
2 244/158R
2 246/187C
2 307/117
2 307/147
2 333/24C
2 340/2.1
2 340/2.2
2 340/2.4
2 340/3.51
2 340/539.1
2 340/825.01
2 340/825.36
2 340/870.02
2 340/870.03
2 340/870.11
2 342/175
2 342/372
2 343/713
2 343/715
2 361/785
2 361/816
2 361/818
2 370/219
2 370/221
2 370/222
2 370/254
2 370/258
2 370/270
2 370/315
2 370/336
2 370/337
2 370/341
2 370/345
2 370/349
2 370/350
2 370/353
2 370/362
2 370/364
2 370/395.53
2 370/395.61
2 370/397
2 370/402
2 370/407
2 370/408
2 370/419

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2 370/421
2 370/428
2 370/432
2 370/445
2 370/450
2 370/458
2 370/461
2 370/466
2 370/524
2 370/540
2 372/50
2 375/223
2 379/165
2 379/211.02
2 379/88.13
2 379/93.05
2 380/266
2 380/283
2 380/41
2 385/134
2 385/135
2 385/14
2 385/17
2 398/135
2 398/136
2 398/139
2 455/11.1
2 455/423
2 455/450
2 455/466
2 455/517
2 455/553.1
2 455/8
2 700/18
2 700/2
2 700/3
2 700/82
2 701/48
2 702/122
2 702/91
2 705/57
2 705/80
2 707/100
2 707/9
2 709/209
2 709/218
2 709/219
2 709/231

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2 709/236
2 709/249
2 710/104
2 710/110
2 710/315
2 710/7
2 713/201
2 713/300
2 716/12
2 719/321
2 719/328
2 725/110

Titles of Most Frequently Occurring Classifications of Patents Returned

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370/338      (9 OR, 22 XR)
      Class 370 : MULTIPLEX COMMUNICATIONS
370/310      COMMUNICATION OVER FREE SPACE
370/328      .Having a plurality of contiguous regions
              served by respective fixed stations
370/338      ..Contiguous regions interconnected by a local
              area network

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chniques (e.g.,

word channels using multiple access techniques (e.g., CDMA)

370/337Multiple access (e.g., TDMA)

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channels

370/347 ..Multiple access (e.g., TDMA)

10 370/252 (6 OR, 4 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION
)

 370/252 .Determination of communication parameters

10 370/331 (6 OR, 4 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/328 .Having a plurality of contiguous regions
 served by respective fixed stations
 370/329 ..Channel assignment
 370/331 ...Hand-off control

10 455/422.1 (3 OR, 7 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system

10 455/426.1 (3 OR, 7 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/426.1 ..Including other radio communication system
 (e.g., cordless telephone, paging, trunking
 , etc.)

10 455/436 (3 OR, 7 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/436 ..Handoff

10 455/450 (3 OR, 7 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/450 ..Channel allocation

9 342/457 (5 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)

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342/457 ..Land vehicle location (e.g., bus, police car

9 370/349 (4 OR, 5 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/345 .Combining or distributing information via tim
 channels
 370/349 ..Using messages having an address field as
 header

9 455/522 (1 OR, 8 XR)
 Class 455 : TELECOMMUNICATIONS
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 455/500 .Plural transmitters or receivers (i.e., more
 than two stations)
 455/507 ..Central station (e.g., master, etc.)
 455/517 ...To or from mobile station
 455/522 Transmission power control technique

8 370/332 (5 OR, 3 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/328 .Having a plurality of contiguous regions
 served by respective fixed stations
 370/329 ..Channel assignment
 370/331 ...Hand-off control
 370/332 Based upon a particular signal quality
 measurement

8 455/434 (3 OR, 5 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/434 ..Control or access channel scanning

8 455/517 (2 OR, 6 XR)
 Class 455 : TELECOMMUNICATIONS
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 455/500 .Plural transmitters or receivers (i.e., more
 than two stations)
 455/507 ..Central station (e.g., master, etc.)
 455/517 ...To or from mobile station

8 455/69 (3 OR, 5 XR)

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Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/68 .With control signal
455/69 ..Transmitter controlled by signal feedback
from receiver

7 370/311 (3 OR, 4 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/311 .Signaling for performing battery saving

7 455/432.1 (2 OR, 5 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/422.1 .Zoned or cellular telephone system
455/432.1 ..Roaming

7 455/524 (0 OR, 7 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more
than two stations)
455/507 ..Central station (e.g., master, etc.)
455/517 ...To or from mobile station
455/524Multiple base stations

6 342/463 (1 OR, 5 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/350 DIRECTIVE
342/450 .Position indicating (e.g., triangulation)
342/463 ..Having plural transmitters or receivers

6 370/312 (4 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/312 .Message addressed to multiple destinations

6 370/328 (2 OR, 4 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/328 .Having a plurality of contiguous regions
served by respective fixed stations

6 370/329 (5 OR, 1 XR)
Class 370 : MULTIPLEX COMMUNICATIONS

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370/310	COMMUNICATION OVER FREE SPACE
370/328	.Having a plurality of contiguous regions served by respective fixed stations
370/329	..Channel assignment
6 370/330	(3 OR, 3 XR)
Class 370 :	MULTIPLEX COMMUNICATIONS
370/310	COMMUNICATION OVER FREE SPACE
370/328	.Having a plurality of contiguous regions served by respective fixed stations
370/329	..Channel assignment
370/330	...Having both time and frequency assignment
6 370/343	(0 OR, 6 XR)
Class 370 :	MULTIPLEX COMMUNICATIONS
370/310	COMMUNICATION OVER FREE SPACE
370/343	.Combining or distributing information via frequency channels
6 370/397	(1 OR, 5 XR)
Class 370 :	MULTIPLEX COMMUNICATIONS
370/351	PATHFINDING OR ROUTING
370/389	.Switching a message which includes an address header
370/395.1	..Message transmitted using fixed length packets (e.g., ATM cells)
370/396	...Distributed switching
370/397Employing logical addressing for routing (e.g., VP or VC)
6 455/411	(2 OR, 4 XR)
Class 455 :	TELECOMMUNICATIONS
455/403	RADIOTELEPHONE SYSTEM
455/410	.Security or fraud prevention
455/411	..Privacy, lock-out, or authentication
6 455/446	(2 OR, 4 XR)
Class 455 :	TELECOMMUNICATIONS
455/403	RADIOTELEPHONE SYSTEM
455/422.1	.Zoned or cellular telephone system
455/446	..Including cell planning or layout
6 455/574	(3 OR, 3 XR)
Class 455 :	TELECOMMUNICATIONS
455/73	TRANSMITTER AND RECEIVER AT SAME STATION (E.G. TRANSCEIVER)
455/550.1	.Radiotelephone equipment detail

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455/572 ..Power supply
455/574 ...Power conservation

6 455/67.11 (1 OR, 5 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/67.11 .Having measuring, testing, or monitoring of
 system or part

5 340/870.03 (2 OR, 3 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
 TELEMETERING)
340/870.02 .With meter reading
340/870.03 ..Having plural transmitters

5 370/280 (2 OR, 3 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/276 DUPLEX
370/277 .Communication over free space
370/280 ..Time division

5 370/401 (1 OR, 4 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/351 PATHFINDING OR ROUTING
370/389 .Switching a message which includes an address
 header
370/400 ..Having a plurality of nodes performing
 distributed switching
370/401 ...Bridge or gateway between networks

5 370/468 (2 OR, 3 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/464 COMMUNICATION TECHNIQUES FOR INFORMATION
 CARRIED IN PLURAL CHANNELS
370/465 .Adaptive
370/468 ..Assignment of variable bandwidth or time
 period for transmission or reception

5 375/141 (0 OR, 5 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 .Direct sequence
375/141 ..End-to-end transmission system

5 375/222 (4 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS

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375/219 TRANSCEIVERS
 375/222 .Modems (data sets)

5 375/347 (1 OR, 4 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/346 .Interference or noise reduction
 375/347 ..Diversity (frequency or time)

5 380/270 (1 OR, 4 XR)
 Class 380 : CRYPTOGRAPHY
 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY
 380/270 .Wireless communication

5 455/343.4 (0 OR, 5 XR)
 Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/334 .With particular receiver circuit
 455/343.1 ..Having particular power or bias supply
 (including self-powered or battery saving
 means)
 455/343.2 ...Battery saving based on received signal
 455/343.4Based on schedule information

5 455/402 (1 OR, 4 XR)
 Class 455 : TELECOMMUNICATIONS
 455/400 HAVING SINGLE-CHANNEL TELEPHONE CARRIER
 455/402 .Over power line

5 455/445 (2 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/445 ..Call routing (e.g., to prevent backhaul,
 routing efficiency, least cost, or alternat
 e routing)

5 455/552.1 (1 OR, 4 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.
 TRANSCEIVER)
 455/550.1 .Radiotelephone equipment detail
 455/552.1 ..Operable on more than one system

5 455/560 (1 OR, 4 XR)
 Class 455 : TELECOMMUNICATIONS

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455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.
TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail

455/560 ..Switching unit detail (e.g., mobile telephon
switching office (MTSO), base station contr
oller (BSC),
etc.)

5 455/561 (1 OR, 4 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail

455/561 ..Base station detail

5 455/62 (2 OR, 3 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/62 .Optimum frequency selection

5 455/63.1 (0 OR, 5 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/63.1 .Distortion, noise, or other interference
prevention, reduction, or compensation

5 455/67.13 (0 OR, 5 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/67.11 .Having measuring, testing, or monitoring of
system or part

455/67.13 ..Noise, distortion, or unwanted signal
detection (e.g., quality control, etc.)

4 340/7.38 (1 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/825 SELECTIVE

340/825.36 .Having indication or alarm (e.g., location
indication)

340/7.2 ..Code responsive (i.e., paging)

340/7.32 ...Power control or battery saving

340/7.38Time based

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4 370/314      (1 OR, 3 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
    370/310      COMMUNICATION OVER FREE SPACE
    370/313      .Portable address responsive receiver
    370/314      ..Using time division multiplexing

4 370/320      (2 OR, 2 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
    370/310      COMMUNICATION OVER FREE SPACE
    370/315      .Repeater
    370/316      ..Airborne or space satellite repeater
    370/319      ...Multiple access (e.g., FDMA)
    370/320      ....Code division (CDMA)

4 370/350      (0 OR, 4 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
    370/310      COMMUNICATION OVER FREE SPACE
    370/345      .Combining or distributing information via tim
e
                    channels
    370/350      ..Synchronization

4 370/441      (2 OR, 2 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
    370/431      CHANNEL ASSIGNMENT TECHNIQUES
    370/441      .Combining or distributing information via cod
e
                    word channels using multiple access techniq
ues (e.g., CDMA)

4 370/442      (1 OR, 3 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
    370/431      CHANNEL ASSIGNMENT TECHNIQUES
    370/442      .Combining or distributing information via tim
e
                    channels using multiple access technique (e
.g., TDMA)

4 375/133      (3 OR, 1 XR)
    Class 375 : PULSE OR DIGITAL COMMUNICATIONS
    375/130      SPREAD SPECTRUM
    375/132      .Frequency hopping
    375/133      ..End-to-end transmission system

4 375/149      (1 OR, 3 XR)
    Class 375 : PULSE OR DIGITAL COMMUNICATIONS

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375/130 SPREAD SPECTRUM

375/140 .Direct sequence

375/147 ..Receiver

375/149 ...Having specific code synchronization

4 375/219 (1 OR, 3 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/219 TRANSCEIVERS

4 455/11.1 (0 OR, 4 XR)

Class 455 : TELECOMMUNICATIONS

455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,
RETRANSMISSION OF SAME INFORMATION)

455/11.1 .Portable or mobile repeater

4 455/276.1 (0 OR, 4 XR)

Class 455 : TELECOMMUNICATIONS

455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER

455/269 .With wave collector (e.g., antenna)

455/272 ..Plural separate collectors

455/276.1 ...With phase shifting, correcting, or
regulating in the output path of one or mor
e collectors

4 455/432.2 (3 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/432.1 ..Roaming

455/432.2 ...System format conversion

4 455/433 (0 OR, 4 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/432.1 ..Roaming

455/433 ...Home location registration (HLR) or visitor
location registration (VLR) detail

4 455/437 (0 OR, 4 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/436 ..Handoff

455/437 ...Mobile assisted or initiated

4 455/452.1 (2 OR, 2 XR)

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Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/450 ..Channel allocation
 455/452.1 ...Dynamic allocation

4 455/525 (1 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

 455/500 .Plural transmitters or receivers (i.e., more than two stations)
 455/507 ..Central station (e.g., master, etc.)
 455/517 ...To or from mobile station
 455/524Multiple base stations
 455/525Base station selection

4 455/562.1 (0 OR, 4 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

 TRANSCEIVER)
 455/550.1 .Radiotelephone equipment detail
 455/561 ..Base station detail
 455/562.1 ...Having specific antenna arrangement

3 340/310.01 (2 OR, 1 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/286.01 SYSTEMS
 340/310.01 .Signal over power line

3 340/7.34 (1 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.36 .Having indication or alarm (e.g., location indication)
 340/7.2 ..Code responsive (i.e., paging)
 340/7.32 ...Power control or battery saving
 340/7.33Based on received signal
 340/7.34Frame based timing

3 340/825.49 (0 OR, 3 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.36 .Having indication or alarm (e.g., location indication)
 340/825.49 ..Location indication

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- 3 340/825.52 (1 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/825.52 .Addressing
- 3 340/825.69 (1 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/825.57 .Pulse responsive actuation
 - 340/825.62 ..Serial
 - 340/825.69 ...Radio link
- 3 340/825.72 (1 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/825.71 .Frequency responsive actuation
 - 340/825.72 ..Wireless link
- 3 370/278 (2 OR, 1 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/276 DUPLEX
 - 370/277 .Communication over free space
 - 370/278 ..Transmit/receive interaction control
- 3 370/281 (1 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/276 DUPLEX
 - 370/277 .Communication over free space
 - 370/281 ..Frequency division
- 3 370/389 (1 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/351 PATHFINDING OR ROUTING
 - 370/389 .Switching a message which includes an address header
- 3 370/404 (1 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/351 PATHFINDING OR ROUTING
 - 370/389 .Switching a message which includes an address header
 - 370/400 ..Having a plurality of nodes performing distributed switching
 - 370/401 ...Bridge or gateway between networks
 - 370/402Bridge between bus systems
 - 370/403At least one bus is a ring network
 - 370/404Ring or loop forms backbone for interconnecting other networks

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- 3 370/408 (0 OR, 3 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/351 PATHFINDING OR ROUTING
 370/389 .Switching a message which includes an address header
 370/400 ..Having a plurality of nodes performing distributed switching
 370/408 ...Nodes interconnected in hierarchy to form a tree
- 3 370/445 (2 OR, 1 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/431 CHANNEL ASSIGNMENT TECHNIQUES
 370/445 .Carrier sense multiple access (CSMA)
- 3 375/130 (2 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
- 3 375/134 (3 OR, 0 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
 375/132 .Frequency hopping
 375/133 ..End-to-end transmission system
 375/134 ...Having specific code acquisition or trackin
- g
- 3 375/140 (0 OR, 3 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
 375/140 .Direct sequence
- 3 375/144 (0 OR, 3 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
 375/140 .Direct sequence
 375/141 ..End-to-end transmission system
 375/144 ...Having multi-receiver or interference cancellation
- 3 375/146 (0 OR, 3 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
 375/140 .Direct sequence
 375/146 ..Transmitter

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- 3 375/297 (2 OR, 1 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/295 TRANSMITTERS
 - 375/296 .Antinoise or distortion (includes predistortion)
 - 375/297 ..Power amplifier
- 3 375/346 (0 OR, 3 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/316 RECEIVERS
 - 375/346 .Interference or noise reduction
- 3 379/221.01 (1 OR, 2 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION
 - 379/220.01 .With interexchange network routing
 - 379/221.01 ..Alternate routing
- 3 380/34 (0 OR, 3 XR)
 - Class 380 : CRYPTOGRAPHY
 - 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY
 - 380/270 .Wireless communication
 - 380/33 ..Using plural paths or channels
 - 380/34 ...Plural carrier frequencies
- 3 455/103 (2 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/91 TRANSMITTER
 - 455/103 .Plural separate transmitters or channels
- 3 455/278.1 (1 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/269 .With wave collector (e.g., antenna)
 - 455/272 ..Plural separate collectors
 - 455/278.1 ...Combined with noise or interference elimination
- 3 455/296 (1 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/296 .Noise or interference elimination
- 3 455/343.2 (0 OR, 3 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY

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CONVERTER

- 455/334 .With particular receiver circuit
- 455/343.1 ..Having particular power or bias supply
(including self-powered or battery saving means)
- 455/343.2 ...Battery saving based on received signal
- 3 455/403 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
- 3 455/435.1 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/422.1 .Zoned or cellular telephone system
455/435.1 ..Registration
- 3 455/442 (2 OR, 1 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/422.1 .Zoned or cellular telephone system
455/436 ..Handoff
455/442 ...Soft handoff
- 3 455/452.2 (1 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/422.1 .Zoned or cellular telephone system
455/450 ..Channel allocation
455/452.1 ...Dynamic allocation
455/452.2Based on service quality (e.g., bandwidth, etc.)
- 3 455/454 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/422.1 .Zoned or cellular telephone system
455/450 ..Channel allocation
455/454 ...Spectrum sharing for different type of system (e.g., point-to-point microwave, television, etc.)
- 3 455/461 (1 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/461 .Including personal numbering system (i.e., intelligent network for subscriber tracking

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or follow-me

subscriber feature)

3 455/462 (2 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/462 .Including private cordless extension system

3 455/502 (1 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more
than two stations)

455/501 ..Noise, distortion, or singing reduction

455/502 ...Synchronized stations

3 455/509 (1 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more
than two stations)

455/507 ..Central station (e.g., master, etc.)

455/509 ...Channel allocation

3 455/515 (0 OR, 3 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more
than two stations)

455/507 ..Central station (e.g., master, etc.)

455/515 ...Control channel monitoring (i.e., paging or
access channel signaling) for system access

3 455/553.1 (0 OR, 3 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

455/552.1 ..Operable on more than one system

455/553.1 ...Radiotelephone having plural transceivers

(e.g., for analog and digital, trunking and
cellular, etc.)

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- 3 455/557 (1 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.
 TRANSCEIVER)
 455/550.1 .Radiotelephone equipment detail
 455/557 ..Interface attached device (e.g., interface
 with modem, facsimile, computer, etc.)
- 3 455/70 (0 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS
 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 455/68 .With control signal
 455/70 ..Receiver control signal originates at messag
 e transmitter
- 3 713/194 (1 OR, 2 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: SUPPORT
 713/189 DATA PROCESSING PROTECTION USING CRYPTOGRAPHY
 713/194 .Tamper resistant
- 2 141/231 (1 OR, 1 XR)
 Class 141 : FLUENT MATERIAL HANDLING, WITH RECEIVER OR
 RECEIVER COACTING MEANS
 141/231 PORTABLE SYSTEMS OR TRACK MOUNTED SUPPLY MEANS
- 2 141/94 (0 OR, 2 XR)
 Class 141 : FLUENT MATERIAL HANDLING, WITH RECEIVER OR
 RECEIVER COACTING MEANS
 141/94 WITH SIGNAL, INDICATOR, RECORDER, INSPECTION
 MEANS OR EXHIBITOR
- 2 141/98 (0 OR, 2 XR)
 Class 141 : FLUENT MATERIAL HANDLING, WITH RECEIVER OR
 RECEIVER COACTING MEANS
 141/98 COMBINED
- 2 340/310.02 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/286.01 SYSTEMS
 340/310.01 .Signal over power line
 340/310.02 ..Modulation technique

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- 2 340/310.06 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/286.01 SYSTEMS
 - 340/310.01 .Signal over power line
 - 340/310.06 ..Bidirectional (e.g., with transceiver)
- 2 340/310.08 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/286.01 SYSTEMS
 - 340/310.01 .Signal over power line
 - 340/310.08 ..With coupling plug
- 2 340/505 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 - 340/501 .With particular system function (e.g., temperature compensation, calibration)
 - 340/505 ..Interrogator-responder
- 2 340/7.21 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/825.36 .Having indication or alarm (e.g., location indication)
 - 340/7.2 ..Code responsive (i.e., paging)
 - 340/7.21 ...Two-way paging
- 2 340/7.32 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/825.36 .Having indication or alarm (e.g., location indication)
 - 340/7.2 ..Code responsive (i.e., paging)
 - 340/7.32 ...Power control or battery saving
- 2 340/7.35 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/825 SELECTIVE
 - 340/825.36 .Having indication or alarm (e.g., location indication)
 - 340/7.2 ..Code responsive (i.e., paging)
 - 340/7.32 ...Power control or battery saving
 - 340/7.33Based on received signal
 - 340/7.35Address based
- 2 340/7.63 (0 OR, 2 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL

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340/825 SELECTIVE
 340/825.36 .Having indication or alarm (e.g., location
 indication)
 340/7.2 ..Code responsive (i.e., paging)
 340/7.63 ...Housing detail

2 340/870.02 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
 TELEMETERING)
 340/870.02 .With meter reading

2 340/870.11 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
 TELEMETERING)
 340/870.11 .Plural transmitters

2 342/174 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM
 342/173 .By monitoring
 342/174 ..Calibrating

2 342/357.1 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.1 Combined with telecommunication

2 342/359 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/359 .Including antenna orientation

2 342/368 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/368 .Including a steerable array

2 342/464 (0 OR, 2 XR)

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Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

342/463 ..Having plural transmitters or receivers

342/464 ...Plural transmitters only

2 343/702 (1 OR, 1 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/702 .With radio cabinet

2 361/686 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices

361/683 ..Computer related support

361/686 ...Input/output device support

2 370/203 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/203 GENERALIZED ORTHOGONAL OR SPECIAL MATHEMATICAL
TECHNIQUES

2 370/256 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/254 NETWORK CONFIGURATION DETERMINATION

370/255 .Using a particular learning algorithm or
technique

370/256 ..Spanning tree

2 370/276 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/276 DUPLEX

2 370/277 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/276 DUPLEX

370/277 .Communication over free space

2 370/285 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/276 DUPLEX

370/282 .Transmit/receive interaction control

370/285 ..Bridge

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- 2 370/310 (2 OR, 0 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
- 2 370/313 (0 OR, 2 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/313 .Portable address responsive receiver
- 2 370/315 (2 OR, 0 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/315 .Repeater
- 2 370/321 (0 OR, 2 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/315 .Repeater
 370/316 ..Airborne or space satellite repeater
 370/319 ...Multiple access (e.g., FDMA)
 370/321Time division (TDMA)
- 2 370/322 (0 OR, 2 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/315 .Repeater
 370/316 ..Airborne or space satellite repeater
 370/319 ...Multiple access (e.g., FDMA)
 370/321Time division (TDMA)
 370/322Channel reservation scheme
- 2 370/336 (0 OR, 2 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/328 .Having a plurality of contiguous regions
 served by respective fixed stations
 370/329 ..Channel assignment
 370/336 ...Combining or distributing information via
 time channels
- 2 370/345 (0 OR, 2 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/345 .Combining or distributing information via tim
 e
 channels
- 2 370/346 (0 OR, 2 XR)

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Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/345 .Combining or distributing information via tim

e

channels

370/346 ..Polling

2 370/352 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/352 .Combined circuit switching and packet switching

2 370/390 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/389 .Switching a message which includes an address header

370/390 ..Replicate messages for multiple destination distribution

2 370/402 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/389 .Switching a message which includes an address header

370/400 ..Having a plurality of nodes performing distributed switching

370/401 ...Bridge or gateway between networks

370/402Bridge between bus systems

2 370/409 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/389 .Switching a message which includes an address header

370/400 ..Having a plurality of nodes performing distributed switching

370/409 ...Employing logical addressing for routing (e.g., VP or VC)

2 370/410 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/389 .Switching a message which includes an address header

370/400 ..Having a plurality of nodes performing distributed switching

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- 370/410 ...Having a signaling feature

- 2 370/412 (0 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/351 PATHFINDING OR ROUTING
 - 370/389 .Switching a message which includes an address header
 - 370/412 ..Queuing arrangement

- 2 370/431 (0 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/431 CHANNEL ASSIGNMENT TECHNIQUES

- 2 370/449 (2 OR, 0 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/431 CHANNEL ASSIGNMENT TECHNIQUES
 - 370/449 .Polling

- 2 370/465 (0 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/464 COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL CHANNELS
 - 370/465 .Adaptive

- 2 370/466 (0 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/464 COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL CHANNELS
 - 370/465 .Adaptive
 - 370/466 ..Converting between protocols

- 2 370/469 (0 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/464 COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL CHANNELS
 - 370/465 .Adaptive
 - 370/469 ..Processing multiple layer protocols

- 2 370/486 (0 OR, 2 XR)
 - Class 370 : MULTIPLEX COMMUNICATIONS
 - 370/473 ..Transmission of a single message having multiple packets
 - 370/480 ..Combining or distributing information via frequency channels
 - 370/485 ..Subscriber carrier
 - 370/486 ...Program distribution

- 2 370/503 (0 OR, 2 XR)

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Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
           multiple packets
370/498 ..Combining or distributing information via tim
e
           channels
370/503 ..Synchronizing

2 370/519 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
           multiple packets
370/498 ..Combining or distributing information via tim
e
           channels
370/503 ..Synchronizing
370/516 ...Adjusting for phase or jitter
370/517 ....Including delay device
370/519 .....Delay based upon propagation delay time

2 370/913 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/912 PACKET COMMUNICATIONS
370/913 ..Wireless or radio

2 375/132 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/132 ..Frequency hopping

2 375/136 (1 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/132 ..Frequency hopping
375/136 ..Receiver

2 375/147 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 ..Direct sequence
375/147 ..Receiver

2 375/148 (0 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 ..Direct sequence
375/147 ..Receiver
375/148 ...Multi-receiver or interference cancellation

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- 2 375/150 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/130 SPREAD SPECTRUM
 - 375/140 .Direct sequence
 - 375/147 ..Receiver
 - 375/150 ...Correlation-type receiver

- 2 375/220 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/219 TRANSCEIVERS
 - 375/220 .Transmission interface between two stations o
- r
 - terminals

- 2 375/257 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/257 CABLE SYSTEMS AND COMPONENTS

- 2 375/259 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT

- 2 375/260 (2 OR, 0 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 - 375/260 .Plural channels for transmission of a single pulse train

- 2 375/296 (1 OR, 1 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/295 TRANSMITTERS
 - 375/296 .Antinoise or distortion (includes predistortion)

- 2 375/298 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/295 TRANSMITTERS
 - 375/298 .Quadrature amplitude modulation

- 2 375/299 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/295 TRANSMITTERS
 - 375/299 .Plural diversity

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2 375/354 (1 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS

2 375/356 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS
 375/356 .Network synchronizing more than two stations

2 375/377 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/377 MISCELLANEOUS

2 379/457 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/457 MISCELLANEOUS

2 379/90.01 (2 OR, 0 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/90.01 TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE
 ELECTRICAL SYSTEM OR SIGNALLING (E.G., COMP

OSITE)

2 379/93.28 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/90.01 TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE
 ELECTRICAL SYSTEM OR SIGNALLING (E.G., C

OMPOSITE)

379/93.01 .Having transmission of a digital message
 signal over a telephone line
 379/93.26 ..By voice frequency signal (e.g., tone code)
 379/93.28 ...Modulated audio tone

2 380/247 (1 OR, 1 XR)
 Class 380 : CRYPTOGRAPHY
 380/247 CELLULAR TELEPHONE CRYPTOGRAPHIC AUTHENTICATIO

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2 380/248 (0 OR, 2 XR)
 Class 380 : CRYPTOGRAPHY
 380/247 CELLULAR TELEPHONE CRYPTOGRAPHIC AUTHENTICATIO

N

380/248 .Visiting center

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- 2 380/273 (2 OR, 0 XR)
 - Class 380 : CRYPTOGRAPHY
 - 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY
 - 380/270 .Wireless communication
 - 380/273 ..Rekeying system

- 2 380/278 (0 OR, 2 XR)
 - Class 380 : CRYPTOGRAPHY
 - 380/277 KEY MANAGEMENT
 - 380/278 .Key distribution

- 2 455/116 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/91 TRANSMITTER
 - 455/116 .Carrier amplitude control (e.g., voice operated on/off)

- 2 455/13.1 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E., RETRANSMISSION OF SAME INFORMATION)
 - 455/11.1 .Portable or mobile repeater
 - 455/12.1 ..Space satellite
 - 455/13.1 ...With plural repeater or relay systems

- 2 455/133 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/132 .Plural receivers
 - 455/133 ..With output selecting

- 2 455/22 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E., RETRANSMISSION OF SAME INFORMATION)
 - 455/20 .With frequency conversion
 - 455/22 ..Plural conversion stages

- 2 455/3.01 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/3.01 WIRELESS DISTRIBUTION SYSTEM

- 2 455/410 (1 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/403 RADIOTELEPHONE SYSTEM
 - 455/410 .Security or fraud prevention

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- 2 455/412.1 (1 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/403 RADIOTELEPHONE SYSTEM
 - 455/412.1 .Message storage or retrieval
- 2 455/428 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/403 RADIOTELEPHONE SYSTEM
 - 455/422.1 .Zoned or cellular telephone system
 - 455/427 ..Space satellite
 - 455/428 ...Switching or routing
- 2 455/447 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/403 RADIOTELEPHONE SYSTEM
 - 455/422.1 .Zoned or cellular telephone system
 - 455/446 ..Including cell planning or layout
 - 455/447 ...Frequency reuse scheme
- 2 455/449 (1 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/403 RADIOTELEPHONE SYSTEM
 - 455/422.1 .Zoned or cellular telephone system
 - 455/446 ..Including cell planning or layout
 - 455/449 ...Hierarchical cell structure
- 2 455/456.5 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/403 RADIOTELEPHONE SYSTEM
 - 455/422.1 .Zoned or cellular telephone system
 - 455/456.1 ..Location monitoring
 - 455/456.5 ...At system equipment (i.e., base station)
- 2 455/506 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 - 455/500 .Plural transmitters or receivers (i.e., more than two stations)
 - 455/501 ..Noise, distortion, or singing reduction
 - 455/504 ...Fading compensation
 - 455/506Rayleigh or multipath fading
- 2 455/507 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 - 455/500 .Plural transmitters or receivers (i.e., more

than two stations)

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455/507      ..Central station (e.g., master, etc.)
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2 455/550.1 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

2 455/555 (1 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

455/555 ..Wireless private branch exchange (PBX) (i.e.

wireless link to extension unit)

2 455/564 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

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455/564      ..Auto-dialing or repertory dialing (e.g.,
              using bar code, etc.)
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2 455/566 (1 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

455/566 ..Having display

2 455/572 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

455/572 ..Power supply

2 455/575.1 (2 OR, 0 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

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455/550.1 .Radiotelephone equipment detail

455/575.1 ..Housing or support

2 455/67.14 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/67.11 .Having measuring, testing, or monitoring of
system or part

455/67.14 ..Using a test signal

2 455/67.16 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/67.11 .Having measuring, testing, or monitoring of
system or part

455/67.16 ..Phase measuring (e.g., group delay,
propagation effect, etc.)

2 455/77 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/77 .With tuning

2 702/179 (0 OR, 2 XR)

Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING

702/127 MEASUREMENT SYSTEM

702/179 .Statistical measurement

2 705/26 (0 OR, 2 XR)

Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMIN

ATION

705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
PRACTICE OR MANAGEMENT ARRANGEMENT

705/26 .Electronic shopping (e.g., remote ordering)

2 705/413 (0 OR, 2 XR)

Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMIN

ATION

705/400 FOR COST/PRICE

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705/413 .Fluid

2 707/10 (1 OR, 1 XR)

Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES

707/1 DATABASE OR FILE ACCESSING

707/10 .Distributed or remote access

2 707/9 (0 OR, 2 XR)

Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES

707/1 DATABASE OR FILE ACCESSING

707/9 .Privileged access

2 709/223 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/223 .Computer network managing

2 709/227 (1 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/227 .Computer-to-computer session/connection
establishing

2 709/228 (1 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/227 .Computer-to-computer session/connection
establishing

709/228 ..Session/connection parameter setting

2 709/236 (1 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/230 .Computer-to-computer protocol implementing

709/236 ..Computer-to-computer data framing

2 709/239 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING

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SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING
709/238 .Computer-to-computer data routing
709/239 ..Alternate path routing

2 709/249 (1 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING
709/249 .Multiple network interconnecting

2 714/749 (0 OR, 2 XR)

Class 714 : ERROR DETECTION/CORRECTION AND FAULT
DETECTION/RECOVERY

714/699 PULSE OR DATA ERROR HANDLING
714/746 .Digital data error correction
714/748 ..Request for retransmission
714/749 ...Retransmission if no ACK returned

	Type	Ref #	Hits	Search Text
1	BRS	S1	49	("5068890" "5210788" "5999094" "6002918" "6405049" "6711409" "4825221" "5623531" "5661802" "6073003" "6167278" "6233465" "5219386" "5303287" "5553101" "5600707" "5630224" "5761193" "5765113" "5790536" "5809067" "5825759" "5952966" "5956073" "6026119" "6028849" "6031845" "6047579" "6122516" "6154638" "6192257" "6212380" "6212380" "6229800" "6243389" "6301470" "6367516" "6390151" "6510210" "6553020" "6781975" "6243870" "5258867" "5933420" "6005884" "6208629" "5490139" "5515509" "5528622" "5533026") .pn.
2	BRS	S2	39511	"370"/\$.ccls.
3	BRS	S3	46211	"455"/\$.ccls.
4	BRS	S4	79973	S2 or S3
5	BRS	S7	2	S5 and (BLUETOOTH PROTOCOL) AND "802.11"
6	BRS	S6	3	S5 and housing and connector
7	BRS	S8	8	S5 AND (LAMP SOCKET) AND (LIGHT FIXTURE)
8	BRS	S9	6	S8 AND (POWER SUPPLY) AND LIGHT AND SOCKET
9	BRS	S10	6	S5 AND LIGHT AND SOCKET
10	BRS	S5	24	S4 and (access adj points)and master and slave and (light fixture)

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	129179	(first ACCESS POINTS) AND (SECOND ACCESS POINTS) AND (LAMP SOCKET) AND (LIGHT FIXTURE)	USPAT
2	BRS	L2	1157	1 AND (POWER SUPPLY) AND MASTER AND SLAVE	USPAT
3	BRS	L3	6	2 AND CONNECTOR AND (ACCESS ADJ POINTS) AND (WIRELESS DATA COMMUNICATION DEVICE)	USPAT
4	BRS	L4	6	3 AND (HOUSING CONNECTOR)	USPAT
5	BRS	L5	10732	1 AND HOUSING AND (HOUSING CONNECTOR) AND CONNECTOR	USPAT
6	BRS	L6	6548	5 AND (LAMP SOCKET) AND (LIGHT FIXTURE) AND SOCKET	USPAT
7	BRS	L7	14	6 AND (POWER ADJ SUPPLY) AND (ACCESS ADJ POINTS) AND LIGHT	USPAT
8	BRS	L8	7	7 AND (WIRELESS DATA COMMUNICATION DEVICE) AND (BLUETOOTH PROTOCOL)	USPAT

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Most Frequently Occurring Classifications of Patents Returned
From A Search of 10758504 on November 12, 2004

Original Classifications

11	370/335
9	370/338
6	370/252
6	370/331
6	370/342
5	342/457
5	370/329
5	370/332
5	370/347
4	370/312
4	370/349
4	375/222
3	370/311
3	370/330
3	375/133
3	375/134
3	455/422.1
3	455/426.1
3	455/432.2
3	455/434
3	455/436
3	455/450
3	455/574
3	455/69
2	340/310.01
2	340/870.03
2	342/357.1
2	370/278
2	370/280
2	370/310
2	370/315
2	370/320
2	370/328
2	370/337
2	370/441
2	370/445
2	370/449
2	370/468
2	375/130
2	375/260
2	375/297
2	379/90.01
2	380/273

2 455/103
2 455/411
2 455/432.1
2 455/442
2 455/445
2 455/446
2 455/452.1
2 455/462
2 455/517
2 455/575.1
2 455/62

Cross-Reference Classifications

22 370/338
13 370/335
13 370/342
11 370/337
8 455/522
7 370/347
7 455/422.1
7 455/426.1
7 455/436
7 455/450
7 455/524
6 370/343
6 455/517
5 342/463
5 370/349
5 370/397
5 375/141
5 455/343.4
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5 455/434
5 455/63.1
5 455/67.11
5 455/67.13
5 455/69
4 342/457
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4 370/331
4 370/350
4 370/401
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4 380/270
4 455/11.1
4 455/276.1

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4 455/562.1
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3 340/825.49
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2 705/26
2 705/413
2 707/9
2 709/223
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2 713/194
2 714/749

Combined Classifications

31 370/338
24 370/335
19 370/342
13 370/337
12 370/347
10 370/252
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10 455/426.1
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2 455/67.16
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2 709/236
2 709/239
2 709/249
2 714/749

04

PLUS Search Results for S/N 10758504, Searched November 12, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5068890	5623495	6259898	6812891	5363447	5721735
5210788	5630224	6301470	6813501	5371734	5726646
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6002918	5717689	6326926	5278892	5386435	5732077
6405049	5737328	6327570	5513379	5398258	5737326
5623531	5745867	6366584	6128328	5412658	5740165
5661802	5745884	6366771	5195090	5412721	5745480
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6167278	5757783	6370380	5426641	5437057	5758294
6711409	5761193	6370475	5459759	5457748	5768685
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5553101	5787077	6393261	5677909	5471187	5790074
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6141763	5881058	6452498	5881094	5513183	5809428
5303287	5890156	6453159	5912919	5515364	5812951
5515509	5907542	6469991	5912963	5515378	5812643
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5546397	5952966	6484029	6006069	5528626	5818826
5600707	5956073	6505045	6005856	5533025	5828655
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5994998	5987062	6535493	6101174	5535242	5842010
6124824	6006090	6553020	6112056	5537414	5842113
6140911	6026119	6577609	6272190	5546467	5841768
6154638	6028849	6580700	4553086	5553316	5854984
6195045	6031845	6587680	4979183	5560021	5854595
6219553	6049533	6590884	4992787	5579535	5859852
6219553	6047579	6594253	5177768	5581597	5862475
6246697	6057779	6600734	5212808	5586121	5864316
6463295	6084867	6618005	5241542	5596570	5878038
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6233465	6192257	6701361	5267244	5638421	5898617
5933420	6201962	6711148	5278992	5640385	5903554
6208629	6212380	6732163	5280472	5642353	5903555
6289238	6215779	6732933	5282222	5671218	5903835
5219386	6212380	6754170	5287384	5675581	5911117
5490139	6215779	6771933	5319634	5697053	5914944
5528622	6229800	6772331	5357513	5706014	5914958
5533026	6233446	6781975	5361258	5708681	5918160
5564055	6243389	6788658	5361397	5710804	5930682
5570084	6249671	6799054	5363375	5715516	5940431
5592541	6259405	6810018	5363376	5715526	5946322